# Coastal Engineering Research Board Meeting

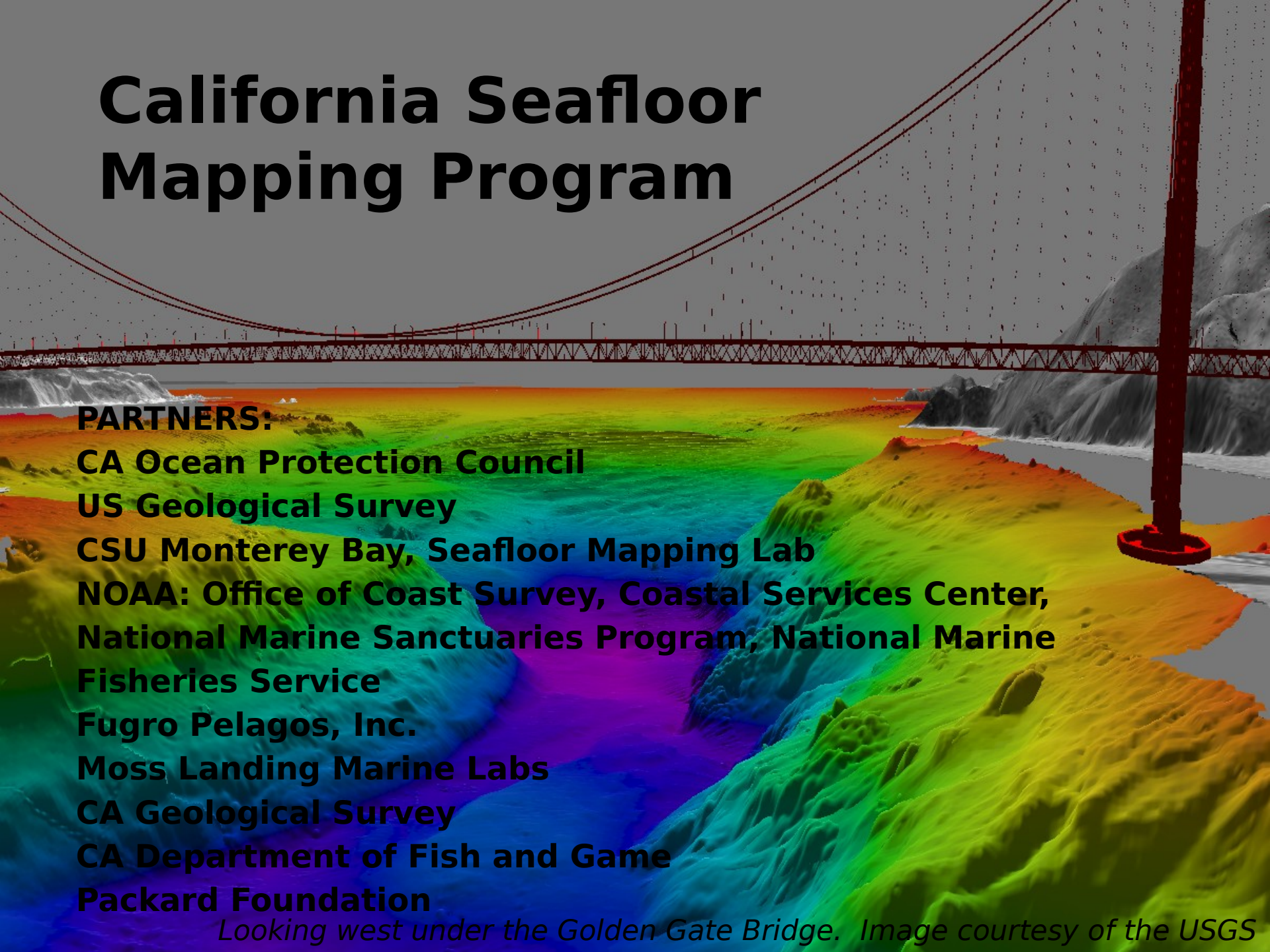
## California Sediment and Ocean Management

Brian Baird

Assistant Secretary for Ocean Policy

June 10, 2009

# California Seafloor Mapping Program

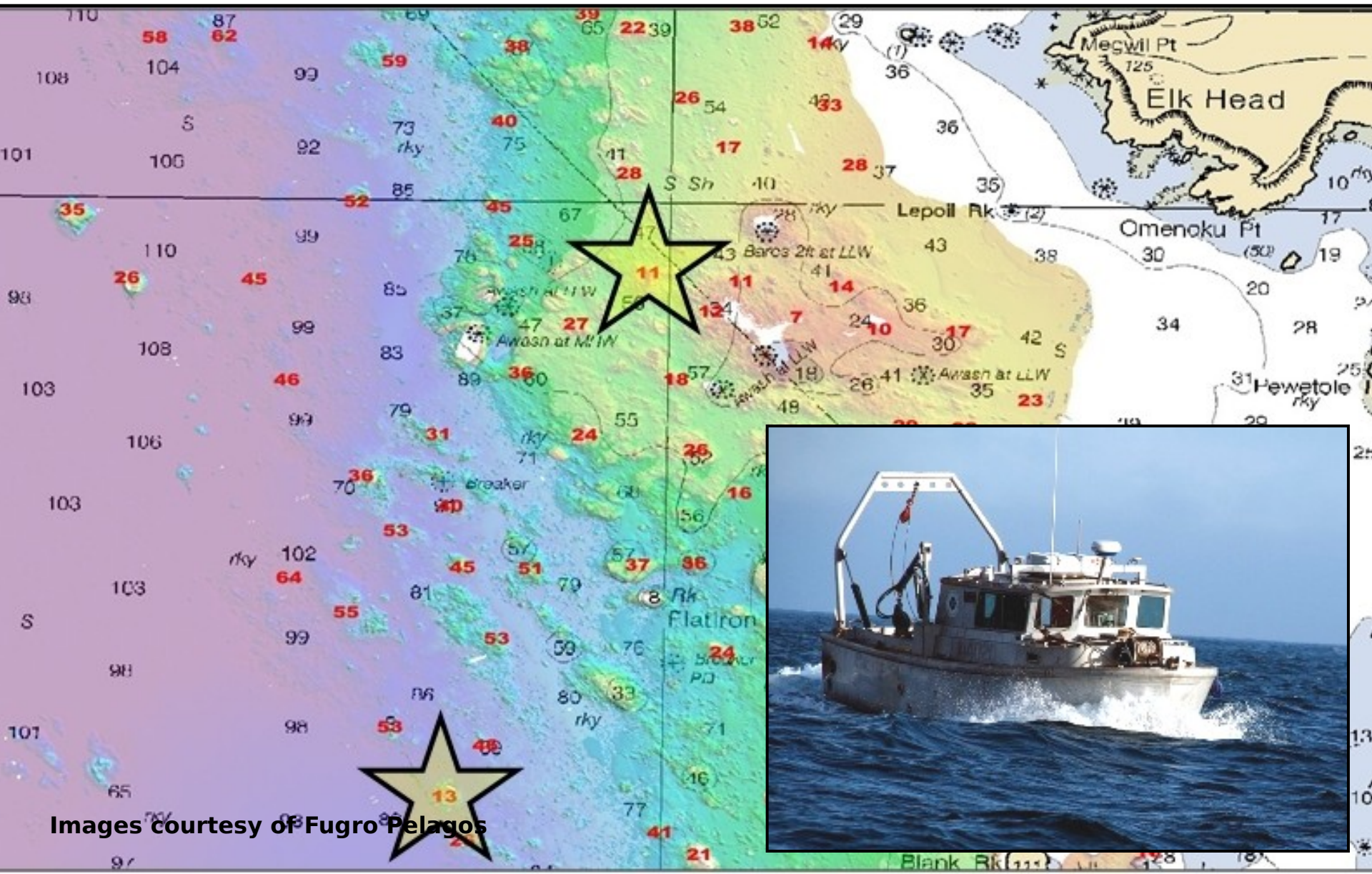


**PARTNERS:**

**CA Ocean Protection Council**
**US Geological Survey**
**CSU Monterey Bay, Seafloor Mapping Lab**
**NOAA: Office of Coast Survey, Coastal Services Center, National Marine Sanctuaries Program, National Marine Fisheries Service**
**Fugro Pelagos, Inc.**
**Moss Landing Marine Labs**
**CA Geological Survey**
**CA Department of Fish and Game**
**Packard Foundation**

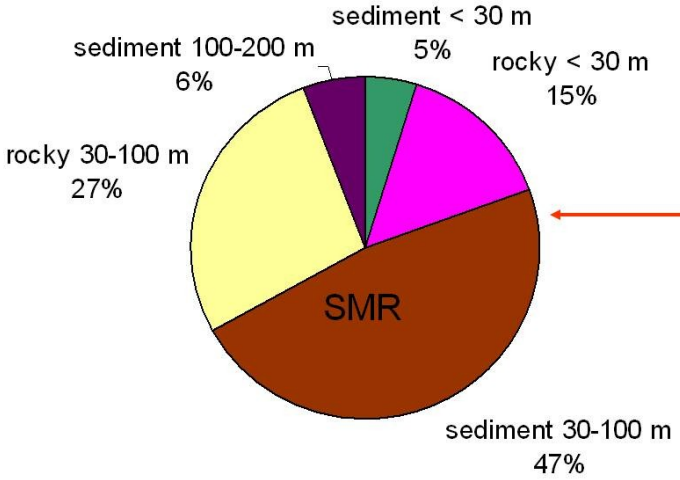
*Looking west under the Golden Gate Bridge. Image courtesy of the USGS*

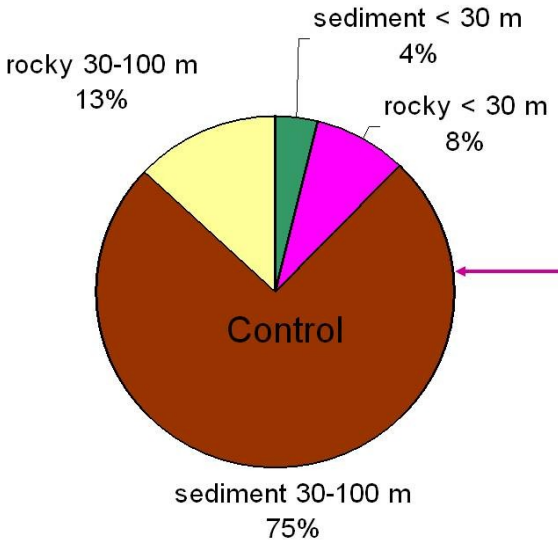
# Updating Navigational Charts

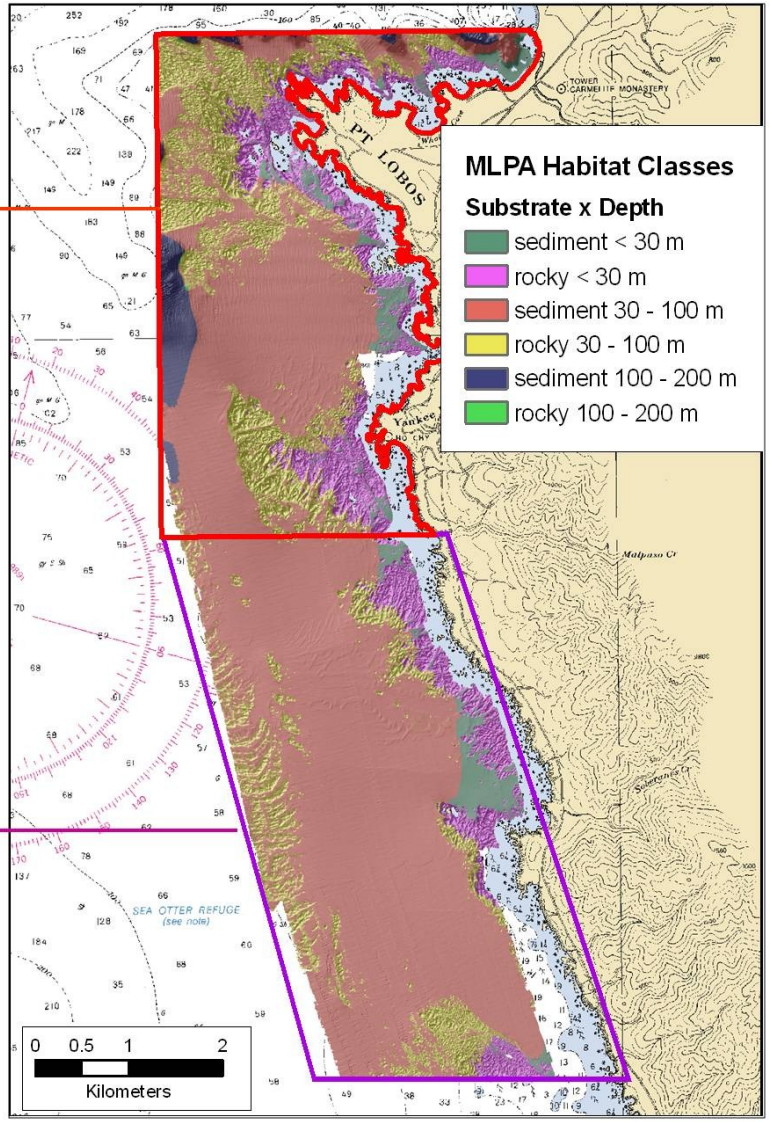


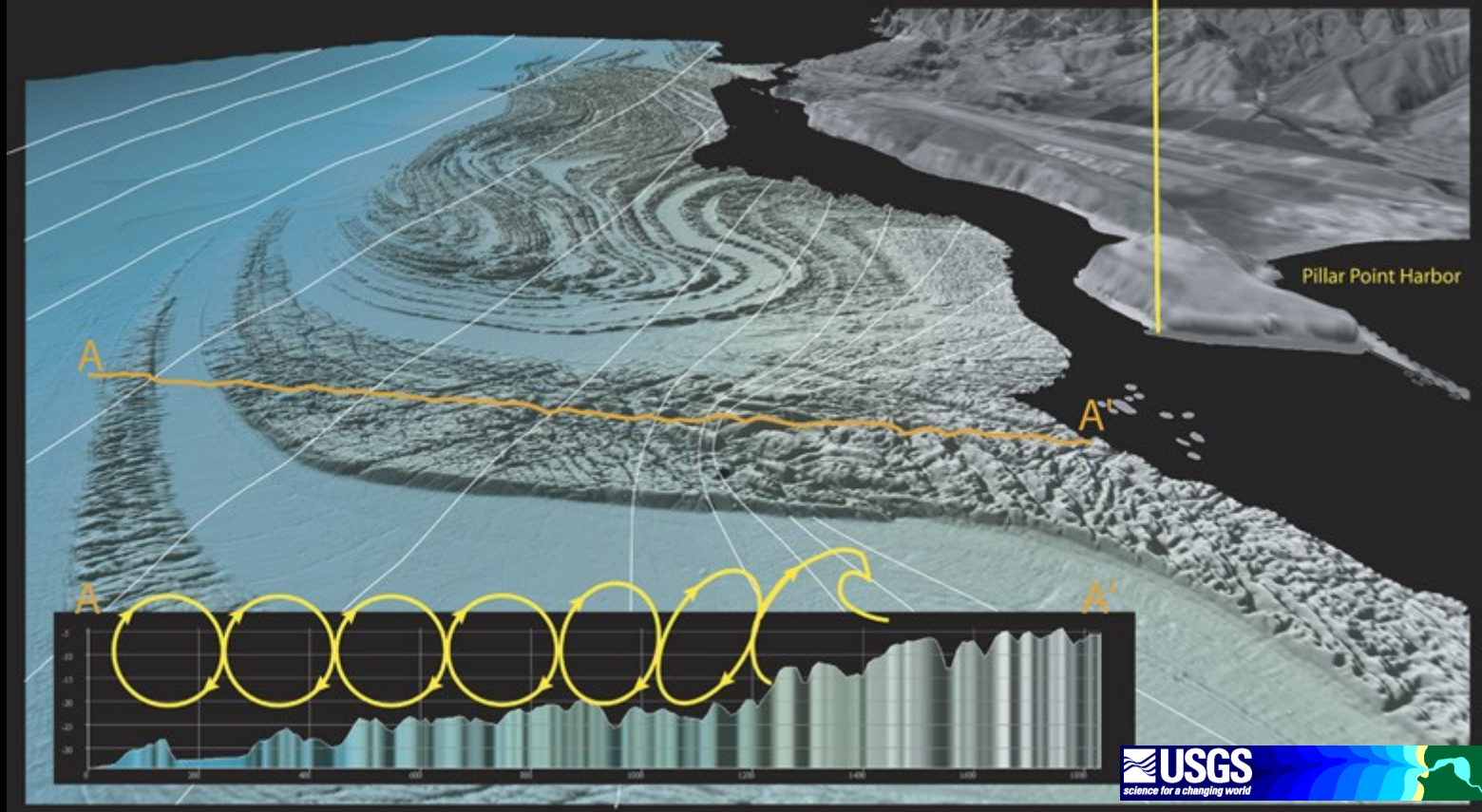

Images courtesy of Fugro Pelagos

# MPA Habitat Assessment

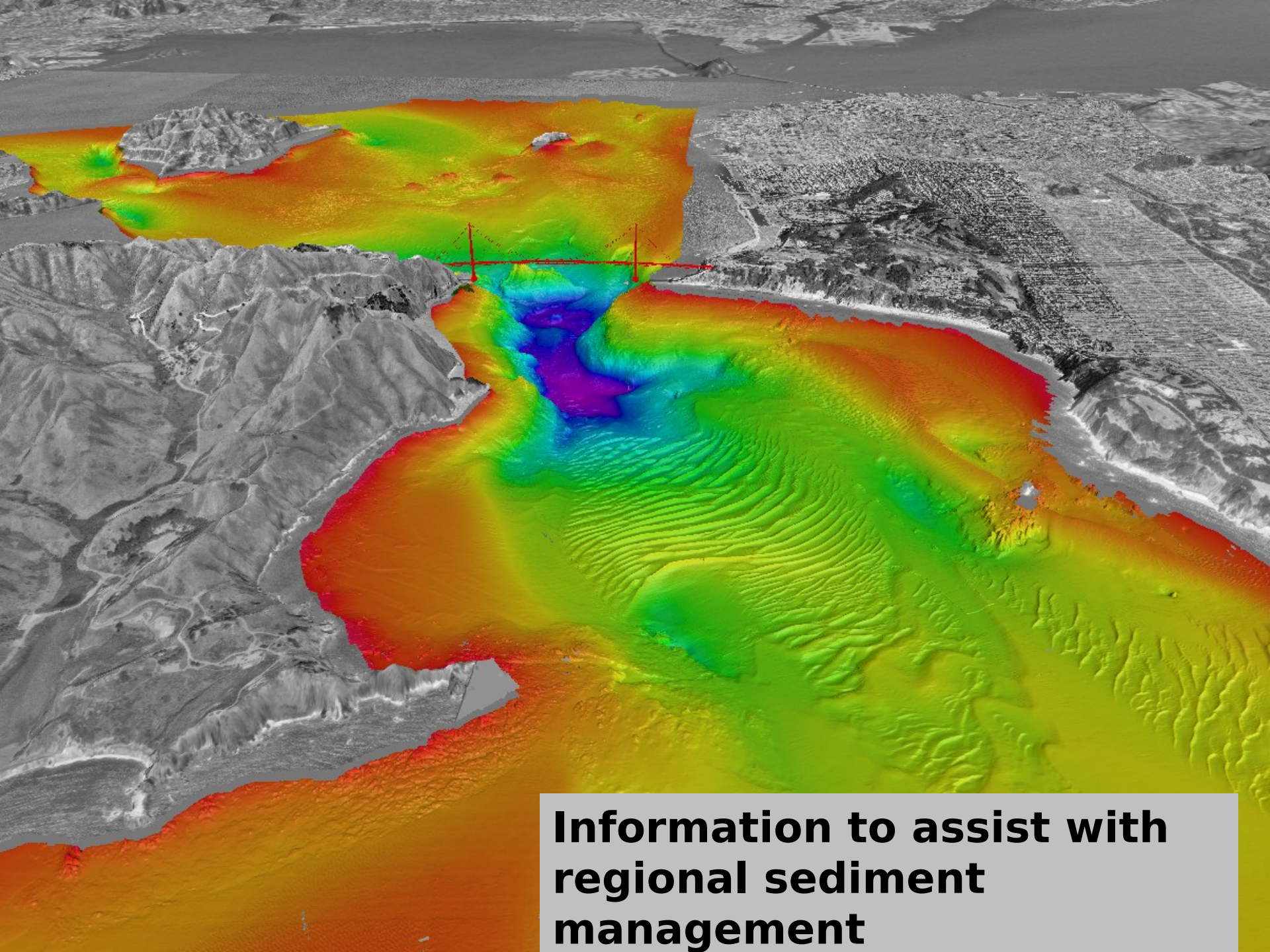





USGS
science for a changing world



**Information to assist with regional sediment management**

# Changes at SF Bay Mouth Since 1956

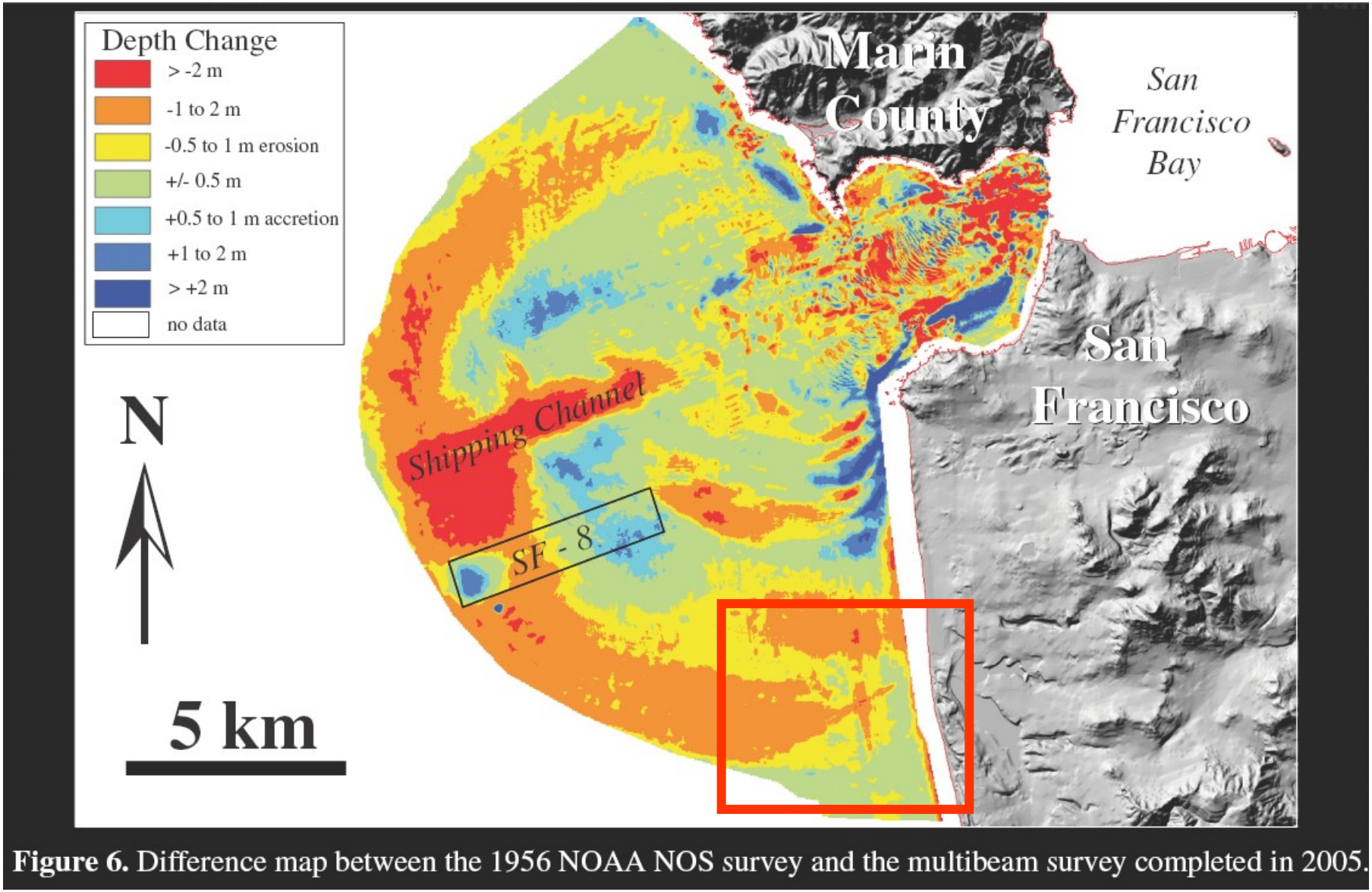
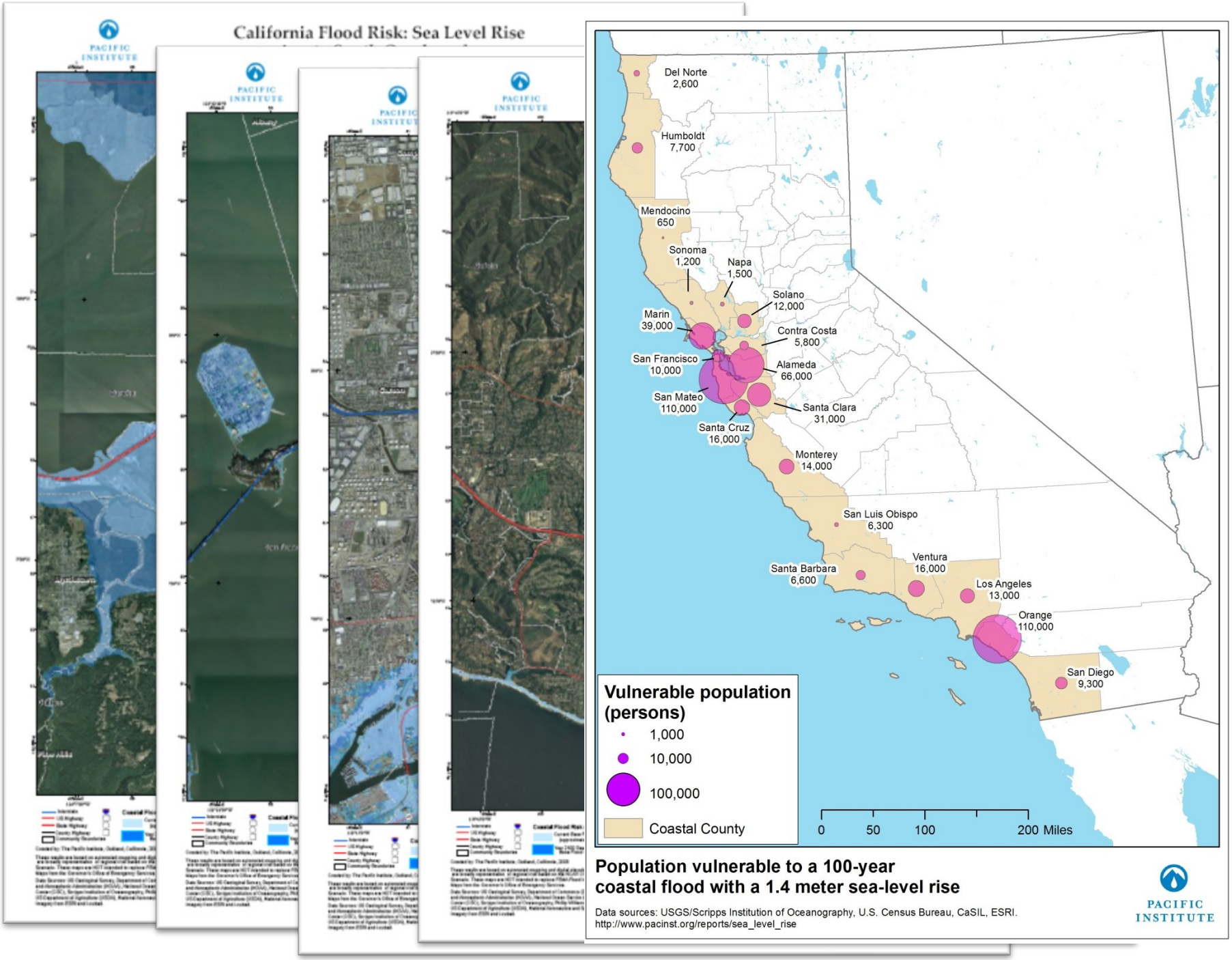


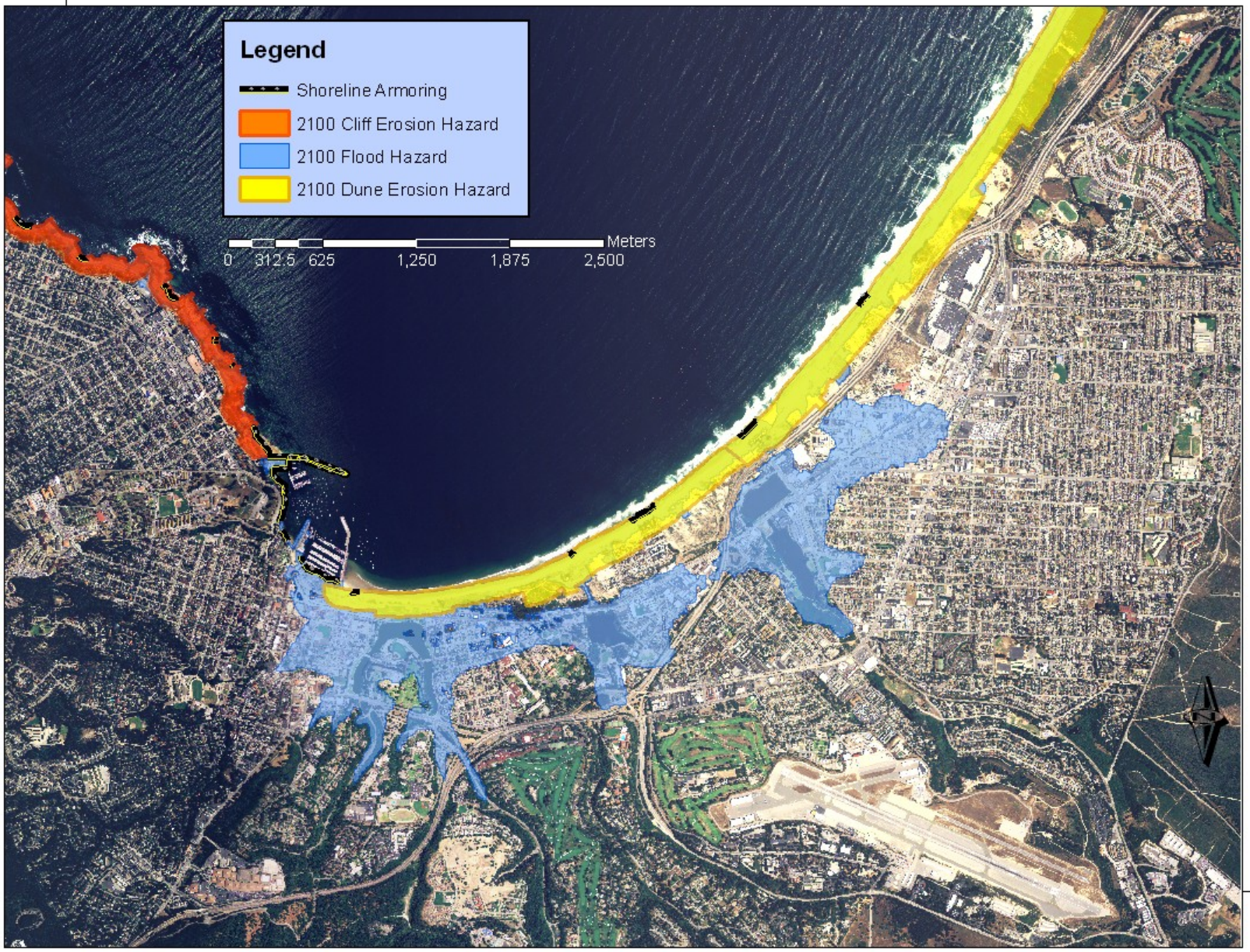

**Figure 6.** Difference map between the 1956 NOAA NOS survey and the multibeam survey completed in 2005.

*Images courtesy of Fugro Pelagos*

# Habitat Use: Grey whale feeding scars

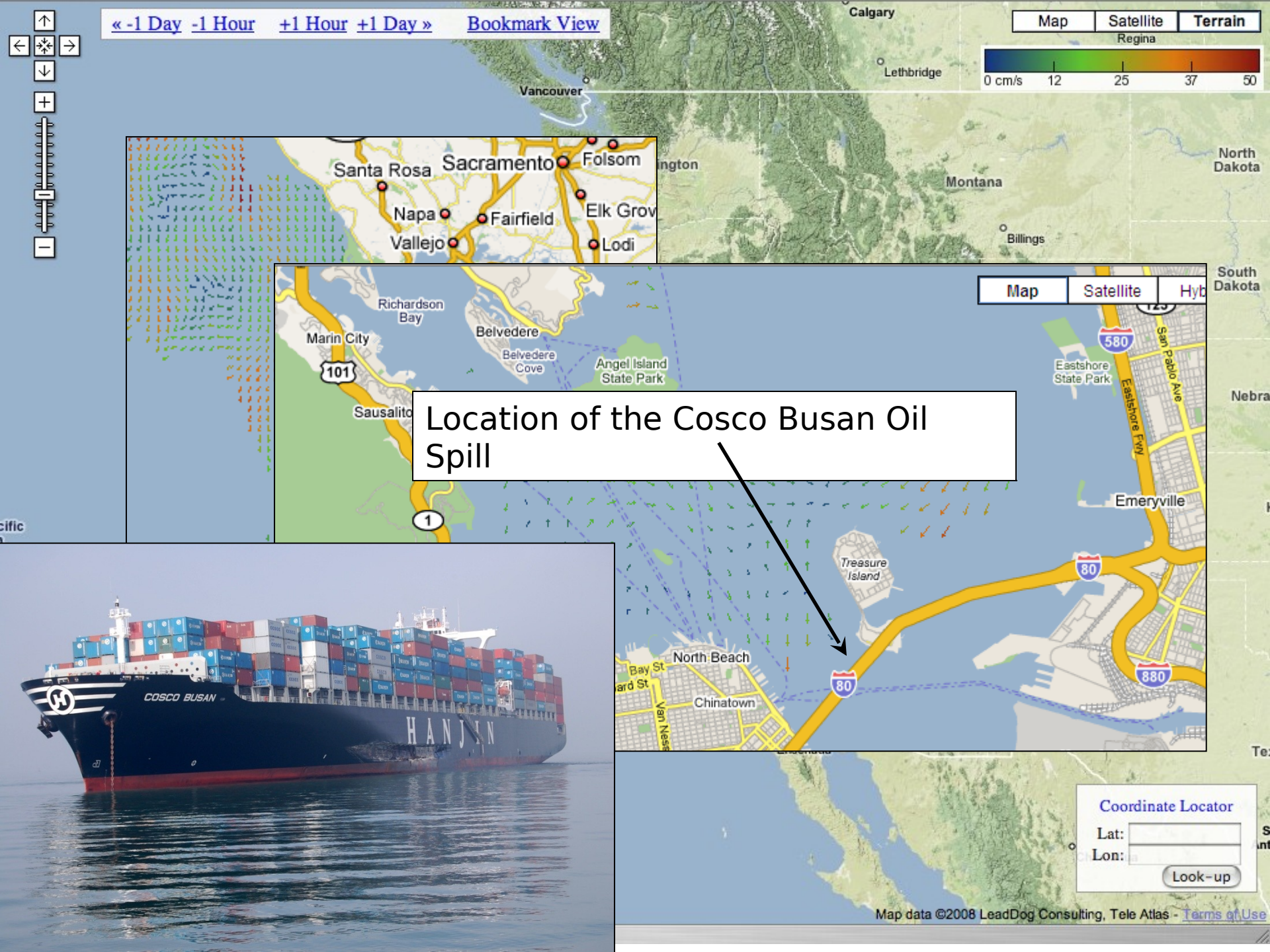

California Flood Risk: Sea Level Rise
PACIFIC INSTITUTE
Del Norte
2,600
Humboldt
7,700
Mendocino
650
Sonoma
1,200
Napa
1,500
Solano
12,000
Marin
39,000
Contra Costa
5,800
San Francisco
10,000
Alameda
66,000
San Mateo
110,000
Santa Clara
31,000
Santa Cruz
16,000
Monterey
14,000
San Luis Obispo
6,300
Santa Barbara
6,600
Ventura
16,000
Los Angeles
13,000
Orange
110,000
San Diego
9,300
Vulnerable population (persons)
1,000
10,000
100,000
Coastal County
0
50
100
200 Miles
Population vulnerable to a 100-year coastal flood with a 1.4 meter sea-level rise
Data sources: USGS/Scripps Institution of Oceanography, U.S. Census Bureau, CaSIL, ESRI.
http://www.pacinst.org/reports/sea_level_rise
PACIFIC INSTITUTE

# Multi Hazard Flood and Erosion Maps



# Dune Hazard Zones

Air Photo from 2005


« -1 Day -1 Hour +1 Hour +1 Day » Bookmark View
Map Satellite Terrain
0 cm/s 12 25 37 50
Calgary
Regina
Lethbridge
Vancouver
Montana
North Dakota
Billings
Santa Rosa
Sacramento
Folsom
Napa
Fairfield
Elk Grov
Vallejo
Lodi
Richardson Bay
Belvedere
Marin City
Belvedere Cove
Angel Island State Park
Sausalito
101
1
Map Satellite Hyb
580
Eastshore State Park
San Pablo Ave
Eastshore Fwy
Emeryville
Treasure Island
80
880
North Beach
Chinatown
Bay St
Van Ness
Location of the Cosco Busan Oil Spill
COSCO BUSAN
HANJIN
Coordinate Locator
Lat:
Lon:
Look-up
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